Virus Name: Tataguine	Abbreviation: TATV

Status
Probable Arbovirus

Select Agent
No

SALS Level
2

SALS Basis
Results of SALS surveys and information from the Catalogue.

Other Information

Antigenic Group
Ungourped

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
IPD/A 252

Accession Number

Original Date Submitted
10/18/1984

Family
Bunyaviridae

Genus
Bunyavirus-like

Information From
P. Bres and M.C. Williams

Address
Institut Pasteur, B.P. 220- Dakar - Rep. of Senegal (West Africa)

Information Footnote
Reviewed by editor

Section II - Original Source

Isolated By (name)
P. Bres and L. Chambon

Isolated at Institute
Pasteur Institute, Dakar

Host Genus
Culex sp. and Anopheles sp.

Species

Host Age/Stage
135 adults

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod

Time Held Alive before Inoculation

Collection Method
Aspirated without bait

Collection Date
9/13/1962

Place Collected (Minimum of City, State, Country)
M'Betit Gouye (near Tataguine), Senegal

Latitude
14° 30' N

Longitude
16° 30' W

Macrohabitat
Wet savannah, sea level, tropical

Microhabitat
Native huts

Method of Storage until Inoculated
Revco at -60dC

Footnotes

Section III - Method of Isolation

Inoculation Date
9/26/1962

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
No

Other Reasons
First isolation in the laboratory

Homologous Antibody Formation by Source Animal

Test(s) Used

Footnotes

Section IV - Virus Properties

Physicochemical

Pieces (number of genome segments)	Infectivity	Sedimentation Coefficients(s) (S)
Percentage wt, of Virion Protein	Lipid	Carbohydrate
Virion Polypeptides: Number	Details	
Non-virion Polypeptides: Number	Details	
Virion Density	Sedimentation Coefficients(s) (S)	
Nucleocapsid Density	Sedimentation Coefficients(s) (S)	

Stability of Infectivity (effects)

pH (infective range)

Lipid Solvent (ether - % used to test)	After Treatment Titer	Control Titer
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate) **1:500**	After Treatment Titer **<2.5 dex**	Control Titer **4.5 dex**

Other (formalin, radiation)

Virion Morphology

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

Morphogenesis

Site of Constituent Formation in Cell	Site of Virion Assembly	Site of Virion Accumulation
Inclusion Bodies	Other	

Hemagglutination

Hemaggiutination	Antigen Source	Erythrocytes (species used)
No	**SMB ext. by sucrose-acetone and fluorocarbon**	**Goose**
pH Range	pH Optimum	
Temperature Range	Temperature Optimum	

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

Section V - Antigenic Relationship and Lack of Relationship to Other Viruses

Investigated by Dr. Williams, East Africa Virus Research Institute, Entebbe, Uganda. Hyperimmune serum from mice, mouse brain antigen.

Homologous IPD/A 252 CF titres 80/128

	(1)	(2)	(3)		(1)	(2)	(3)
Group A: CHIK	40/8	X *		Simbu Group			
SFV	20/8	X		Ingwavuma	40/128	X	X
Sindbis	20/2	X		Simbu	40/64	X	X
Middelburg	20/4	X		Yaba 1	40/128	X	
Group B				**Others**			
Banzi	640/16	X	X	AHS	80/64		X
Wesselsbron	320/4	X	X	Bluetongue	64/32	X	X
WN	10/16	X	X	AR 492 (Wad Medani)	320/40		X
YF	20/8	X	X	Chenuda	160/40	X	X
Zika	20/8	X	X	Eret 147	80/160	X	
Usutu	320/16	X		Lagos bat	40/64	X	X

Ug S	160/4	X		Lebombo	40/40		X
Spondweni	20/16	X		Lumbo	20/64	X	X
Ntaya	20/2	X		Mossuril	40/64	X	X
Entebbe bat	40/8	X		NSD	80/16	X	X
H Dengue	10/4	X		Nyamanini	320/128		X
				Nyando	10/256	X	X
Bunyamwera Group				Quaranfil	80/40		X
Ilesha	80/256	X		Tanga MP 1329	160/64		X
Bunyamwera	80/64	X	X	Tete	320/20		X
Germiston	160/64	X	X	Thogoto	160/16		X
Shokwe	640/160		X	Witwatersrand	20/64	X	X
				Olifantsvlei	80/40		X
Bwamba Group				Congo	80/64	X	
Bwamba	40/128	X	X	Herpes	20/2	X	
Pongola	40/160	X	X				

The antiserum titres are the maxima. The antigen titres given are the highest at which the antiserum is maximal i.e. optimal antigen titre.

(1) Homologous titre antiserum/antigen

(2) IPD/A 252 serum

(3) IPD/A 252 antigen

* X Indicates that test was made and the results were negative.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
Newborn mice

Cell system (a)	Virus passage history (b)	Evidence of Infection							
		CPE			PLAQUES			Growth Without CPE	
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	+/- (g)	
DE (PC)	P2SM1					No plaques	<3.0**(9)		
Vero (CL)					6	Plaques	6.5 (9)		
LLC-MK2 (CL)						No plaques	<3.0 (9)		

** Expressed in dex

Section VII - Natural Host Range (Additional text can be added below table)

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Man (<5 yrs old)	7		Nigeria, 1971-1975 (10)
Man	8	23/176	Bandia, Senegal
Man	0/748		Senegal(several regions)
Man		0/50 CF	Tataguine, Senegal
Man		20/35 NT	
Man		128/210 NT	Nigeria (6)
Man	9		Ibadan, Nigeria (5)
Man	4		Bangui, Central African Republic
Man	2		Central African Republic (8)
Man	1		Yaounde, Cameroun
Domestic animals, rodents, monkeys, birds		0/150 NT	Nigeria (6)
Bats	0/8,492		Senegal
Other vertebrates	0/159		
Mosquitoes	0/9,742		
Other arthropods	0/4,445		
Anopheles funestus (pool, unfed and gravid)	1		Ibadan, Nigeria (5)
Mansonia aurites	1		Yaounde, Cameroun
Anopheles gambiae	5		Bangui, Cent. Afr. Rep.; Bandia, Senegal; Yaounde, Cameroun

Section VIII - Susceptibility to Experimental Infection (include viremia)

Experimental host and age	Passage history and strain	Inoculation Route-Dose	Evidence of infection	AST (days)	Titer log10/ml
Mice (nb)	SMB 3	ic 0.02	Death	5	6.5
Mice (nb)		ip 0.02	None		
Mice (nb)		sc			
Mice (wn)		ic 0.03	None		
Mice (wn)		ip 0.10	None		
guinea pig (1mo)	SMB 4	ic 0.10	None		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log10/ml (b)		Incubation period (c)		Transmision by bite (d)		Assay of arthropod, log10/ml (e)		
	Feeding	Injected	Days	°C	Host	Ratio	Whole	Organ	System

Section X - Histopathology

Character of lesions (specify host)
Inoculated mouse brains showed cuffing of blood vessels and small foci of neuronal necroses (anterior horns, midbrain, pons). Lymphocytic meningitis. No inclusion bodies.

Inclusion Bodies — Intranuclear

Organs/Tissues Affected
Brain (LV), spinal cord (LV), lungs (LV)

Category of tropism
Neurotropic

Section XI - Human Disease

In Nature — Residual — Death
Reported

Subclinical — Overt Disease

Clinical Manifestations
Fever, headache, rash and joint pains (10)

Number of Cases

Category (i.e. febrile illness, etc.)
Febrile illness with rash

Section XII - Geographic Distribution

Known (Virus detected)
Senegal, Cameroun, Central African Republic, Nigeria, Ethiopia (7)

Suspected (Antibody only detected)

Section XIII - References

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Remarks